
Remarks / Arguments & Status

The applicant's attorney thanks the examiner for the courtesy of the interview of 23 April 2004 wherein the outstanding issues of the application were discussed.

The application presently contains the following claims:

<i>Independent Claim #</i>	<i>Dependent Claim #s</i>	
83 (canceled)	84-92	(canceled)
93 (canceled)	94-102	(canceled)
103	104-108	(109 – 112 are canceled)
113	114-115, 118	(116 – 117, 119 – 123 are canceled)

Claims 83-102, 109-112, 116-117 and 119-123 are canceled in this amendment. Claims 103-106, 113 and 117-118 are amended. No claims are newly added. Support for the amended and newly added claims can be found with reference to the claims as previously submitted in light of the fact that the claims are being narrowed in conformity with applicant's initial species election.

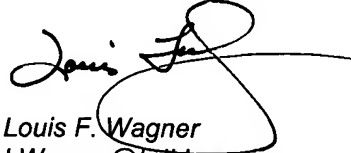
Request for Reconsideration

Applicant believes that independent claims 103 and 113 clearly define over the prior art and that the distinctions between the present invention and the prior art would not have been obvious to one of ordinary skill in the art. Additionally, all remaining dependent claims, by virtue of the dependency from associated independent claims, containing all of the limitations inherent therein, are felt to be patentable over the prior art by virtue of their dependency from independent claims which distinguish over the prior art of record. All pending claims are thought to be allowable and reconsideration by the Examiner is respectfully requested.

It is respectfully submitted that no new additional searching will be required by the examiner.

It is respectfully submitted that all references identified by the examiner have been distinguished in a non-obvious way. If the examiner believes that a telephonic conversation would facilitate a resolution of any and/or all of the outstanding issues pending in this application, then such a call is cordially invited at the convenience of the examiner.

Respectfully Submitted,
Buckingham, Doolittle & Burroughs, LLP



Louis F. Wagner
LWagner@bdblaw.com
Registration No.: 35,730

Buckingham, Doolittle & Burroughs, LLP
50 S. Main St.
P.O. Box 1500
Akron, Ohio 44309-1500
(330) 258-6453 (telephone)
(330) 252-5452 (fax)
Attorney Docket #: 47399.0015

Table XII

Time (min)	Color (Yellowness Index) Value			
	0 ppm Zn	50 ppm Zn	200 ppm Zn	400 ppm Zn
Doverphos® 675				
0	51.9	14.1	3.9	3.5
20	62.7	14.9	4.6	3.2
50	72.5	50.2	13.1	12.0
70	91.5	66.8	23.5	26.1
90	100.7	75.2	39.6	58.3
110	135.4	88.5	61.2	Char
Doverphos® 12				
0	50.2	14.1	2.9	3.0
20	60.4	15.6	3.5	3.2
50	75.2	55.9	12.8	11.5
70	89.3	75.2	23.9	19.4
90	100.1	89.0	38.7	36.4
110	131.8	98.8	59.4	67.6
Doverphos® 9EH				
0	51.9	9.2	4.1	3.0
20	65.2	12.8	4.7	4.0
50	74.9	55.6	12.8	11.5
70	96.2	66.6	22.5	37.3
90	108.6	75.4	45.5	Char
110	132.7	87.4	116	

2 It is seen that while there is a minimal value of zinc that must be added in order to
3 achieve similar or superior stabilization, beyond a critical value of zinc, continued addition
4 of zinc is detrimental to the system.

5 **Example #6 – Roofing Membrane**

6 A stabilization for a roofing membrane composition was performed using the
7 composition of Table XIII was formulated using 4.5 phr of stabilizer, the Yellowness Index
8 results of which are shown in Table XIV for several Prior Art additives

Table XIII

Component	Parts
PVC Resin	100
Plasticizer	45
Epoxidized soybean oil	5
CaCO ₃	20
Stearic acid	0.25
Phosphite	various

Table XIV

Time (min)	Color (Yellowness Index) Value			
	Ba/Cd	Ba/Zn	Ba/Cd/Zn	B
0	1.4	1.2	1.6	1.5
30	1.7	1.5	2.2	1.7
75	8.9	9.9	8.3	5.8
120	12.7	16.7	10.8	9.9
150	15.7	21.9	15.1	14.4

Example #7

A stabilization for a pool liner composition was performed using the composition of Table XIII was formulated using 3.5 phr of stabilizer, the Yellowness Index results of which are shown in Table XV for several Prior Art additives..

Table XV

Time (min)	Color (Yellowness Index) Value			
	Ba/Cd	Ba/Zn	Ba/Cd/Zn	B
0	1.7	1.1	1.6	1.2
20	2.2	1.9	2.3	1.5
40	4.1	3.5	3.5	3.3
70	11.8	8.1	9.8	7.7
100	16.2	22.7	21.8	13.2
120	23.0	36.0	32.5	21.9